

IN THE CLAIMS:

Claim 1. (Original) An implantable medical device, comprising:
a body portion having an inner surface and an outer surface; and
a roughened area formed on the inner surface of the body portion.

Claim 2. (Original) The medical device of claim 1, wherein the roughened area includes asperities.

Claim 3. (Original) The medical device of claim 2, wherein the asperities comprise material deposited on the area of the inner surface of the lens that is roughened.

Claim 4. (Original) The medical device of claim 1, wherein the roughened area is an area of the body portion wherein material has been selectively etched from the body portion.

Claim 5. (Original) The medical device of claim 1, wherein the roughened area includes substantially the entire inner surface of the body portion.

Claim 6. (Original) The medical device of claim 1, wherein the body portion includes first and second ends and the roughened area is a portion of the inner surface of

the body portion adjacent the first and second ends such that a middle portion of the inner surface of the body portion is smooth.

Claim 7. (Original) The medical device of claim 1, wherein the roughened portion has a roughness factor greater than 40 nm.

Claim 8. (Original) The medical device of claim 1, wherein the roughened portion has a roughness factor greater than 100 nm.

Claim 9. (Original) The medical device of claim 1, further comprising a layer of non-thrombogenic material formed on the inner surface of the body portion.

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Claim 10. (Original) The medical device of claim 1, wherein the body portion includes a wall having a selected thickness defined by the inner and outer surfaces of the body portion, and wherein the roughened portion includes at least one region where the wall is thinner than the selected thickness.

Claim 11. (Original) The medical device of claim 10, wherein the roughened area includes a groove in the inner surface.

Claim 12. (Original) The medical device of claim 10, wherein the roughened area covers substantially the entire inner surface of the body portion.

Claim 13. (Original) The medical device of claim 10, wherein the body portion further includes a first end and a second end, and wherein the roughened portion covers selected regions adjacent the first and second ends, the body portion also having a middle portion that is substantially smooth.

Claim 14. (Original) The medical device of claim 10, further comprising a coating layer formed on the inner surface of the body portion.

Claims 15-56 (Cancelled)

Claim 57. (Original) An implantable medical device, comprising:

a body portion having an inner surface and an outer surface;

an asperity formed on a selected portion of the inner surface of the body portion;

and

a coating of a bio-compatible material applied to the inner surface of the body portion over the asperity.

Claim 58. (Original) An implantable medical device, comprising:

a body portion formed from a tubular member, the body portion having an inner surface and an outer surface;

a plurality of asperities formed on a selected region of the inner surface of the body portion; and

a coating of a material applied over the asperities for providing reduced interaction between the asperities and fluid flow in a body lumen.

Claim 59. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface;
a roughened area formed on the inner surface of the body portion, wherein the roughened area has a roughness factor greater than 40 nm.

Claim 60. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface;
a roughened area formed on the inner surface of the body portion, wherein the roughened area has a roughness factor greater than 40 nm; and
a coating of a material applied over the roughened area, the coating providing reduced interaction between the asperities and fluid flow in a body lumen.

Claim 61. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface;
friction increasing means formed on the inner surface of the body portion; and
means for providing reduced interaction between the friction increasing means and fluid flow in a body lumen.

Claim 62. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface;
friction increasing means formed on a selected area of the inner surface of the
body portion, the selected area of the inner surface having a roughness factor greater than
40 nm.

Claim 63. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface;
friction increasing means formed on a selected area of the inner surface of the
body portion, the selected area of the inner surface having a roughness factor greater than
40 nm; and
means for providing reduced interaction between the friction increasing means and
fluid flow in a body lumen.

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Claim 64. (Original) An implantable medical device, comprising:
a tubular body portion having an inner surface and an outer surface, the inner
surface being measurably rougher than the outer surface.

Claims 65-66 (Cancelled).